

FIG. 1

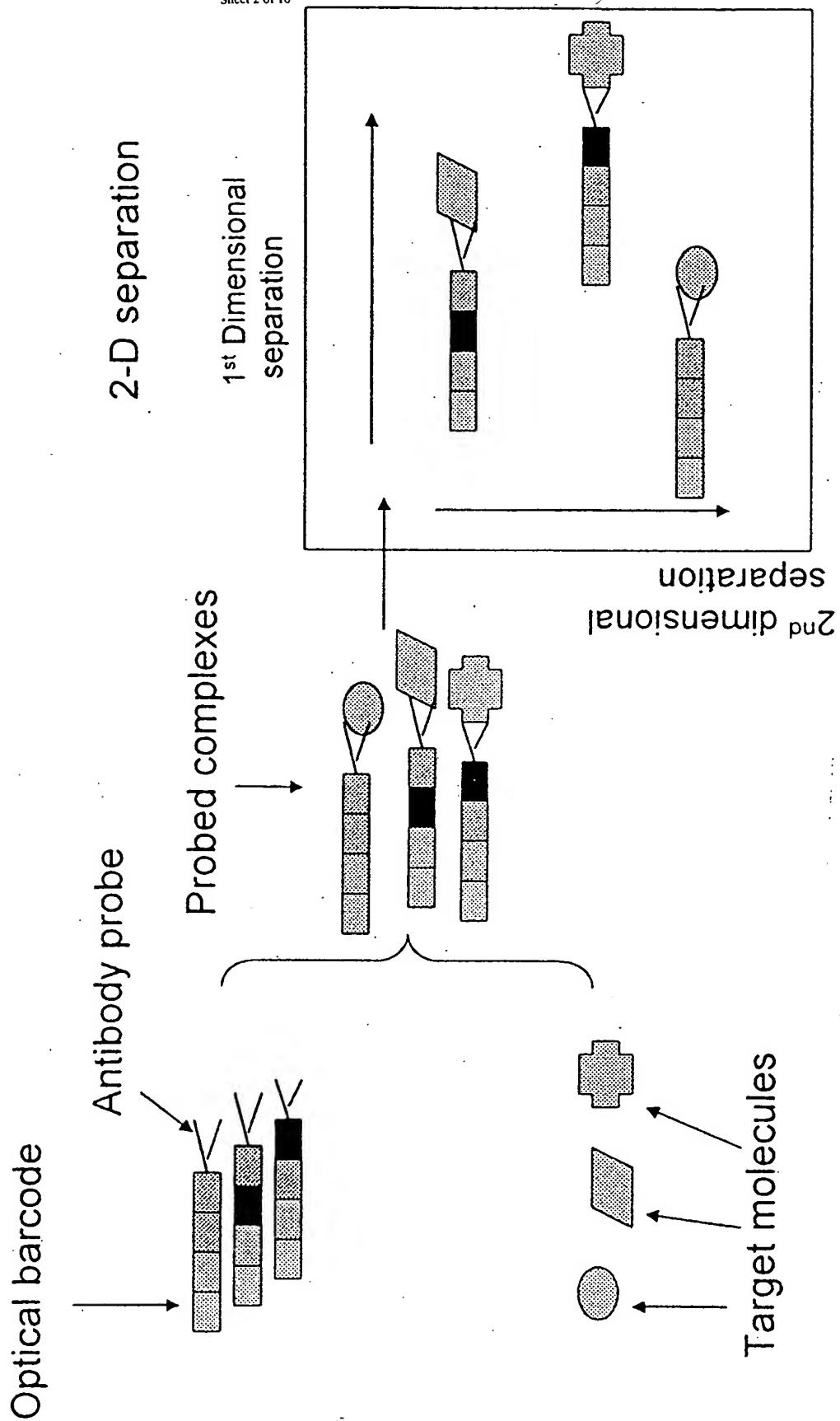


FIG. 2

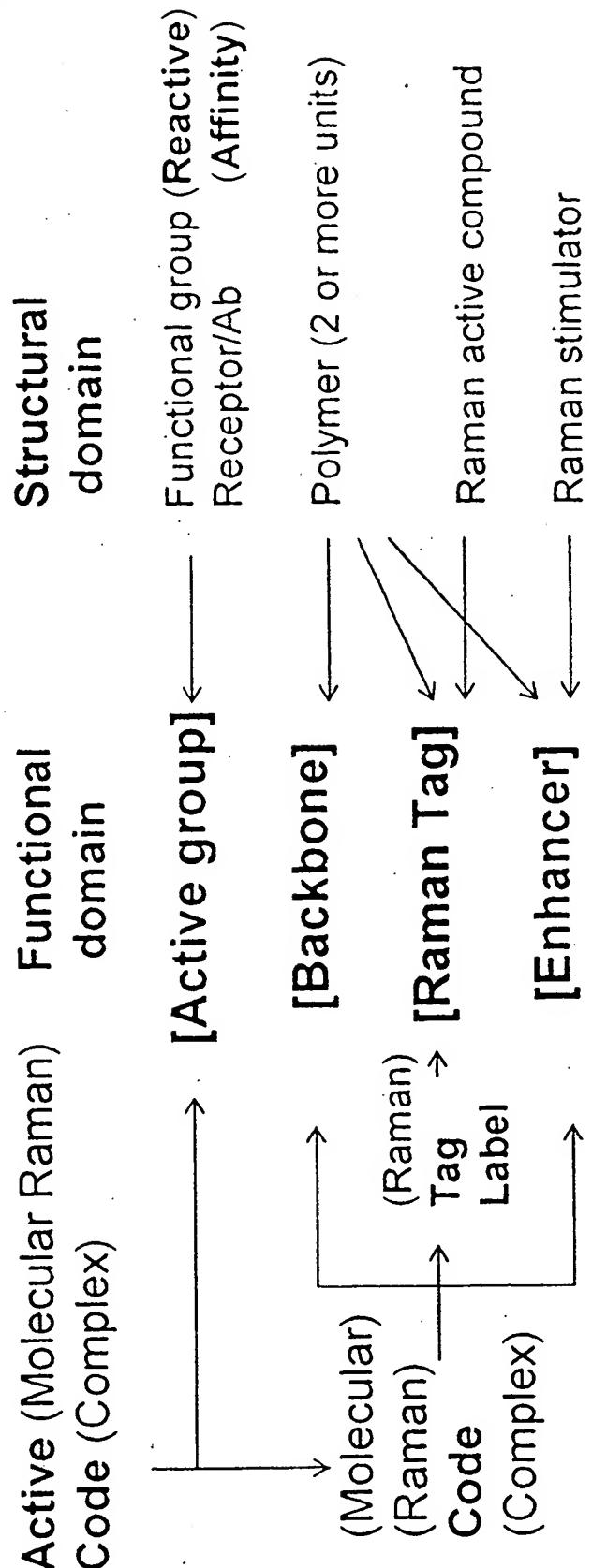


FIG. 3

Raman (SERS) Spectra

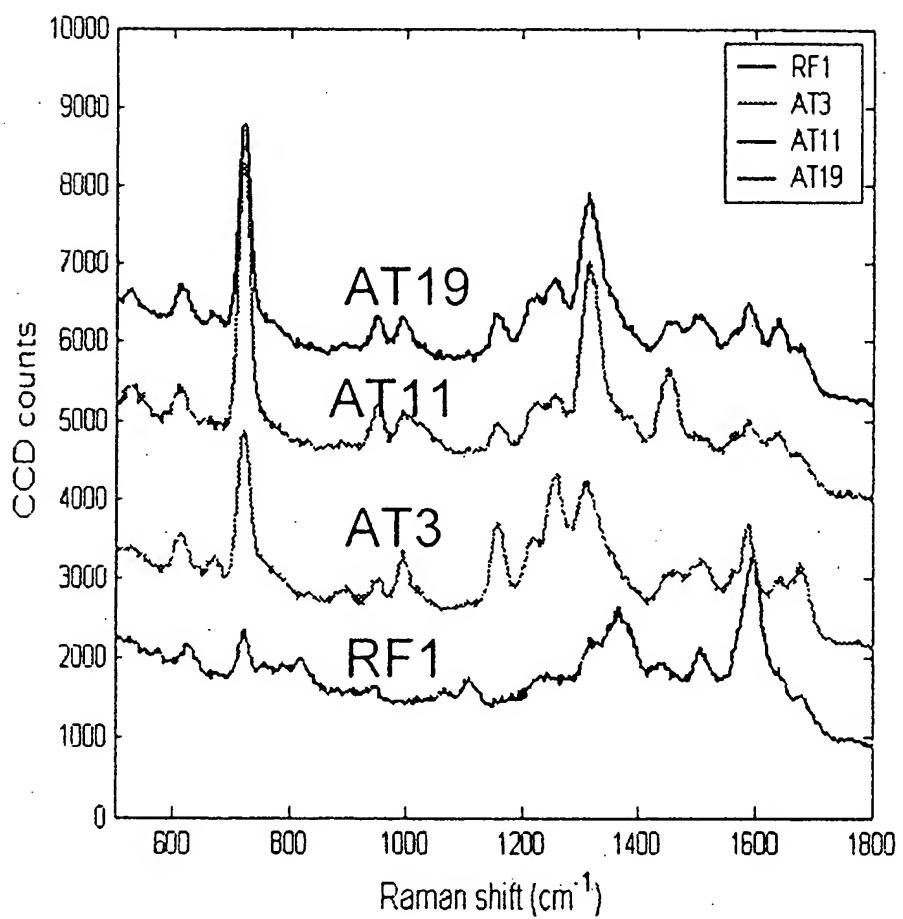


FIG. 4

Raman (SERS) Spectra

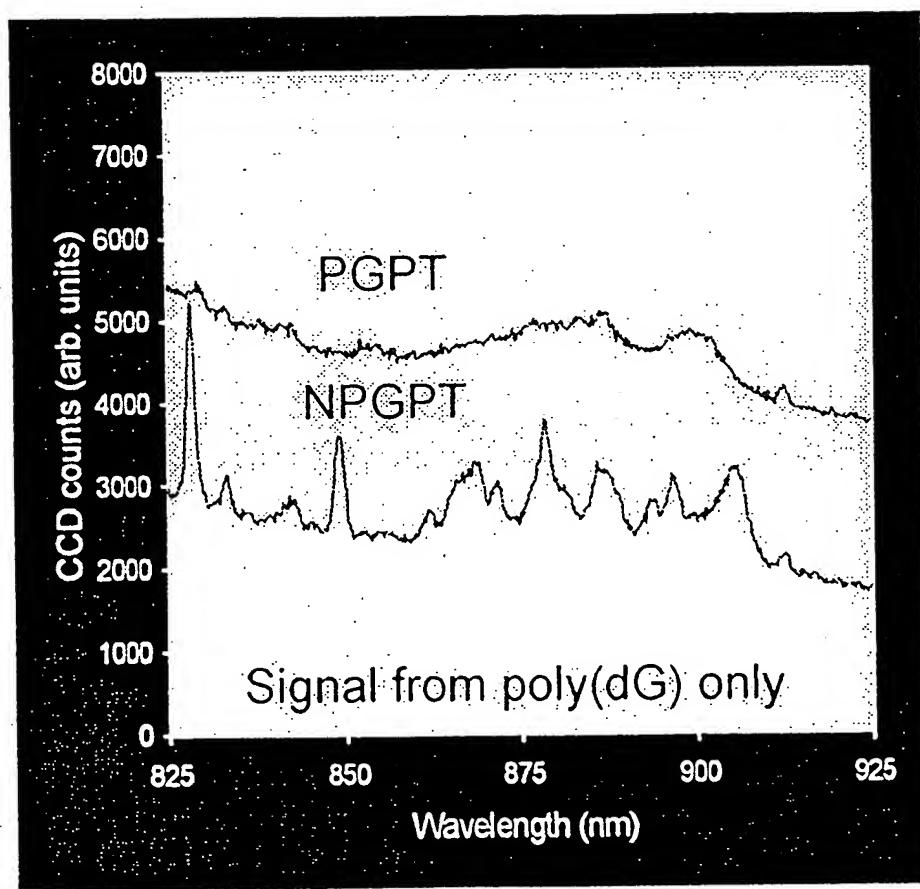


FIG. 5

BEST AVAILABLE COPY

Raman (SERS) Spectra

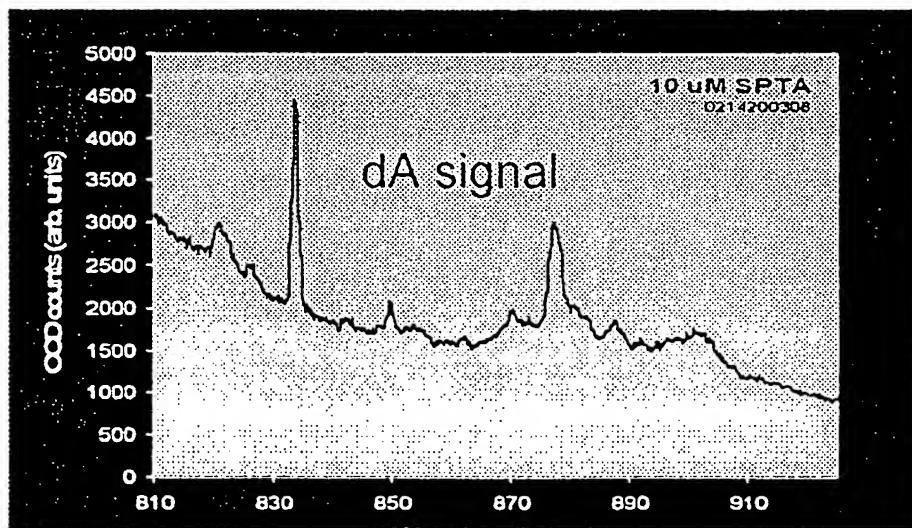


FIG. 6A

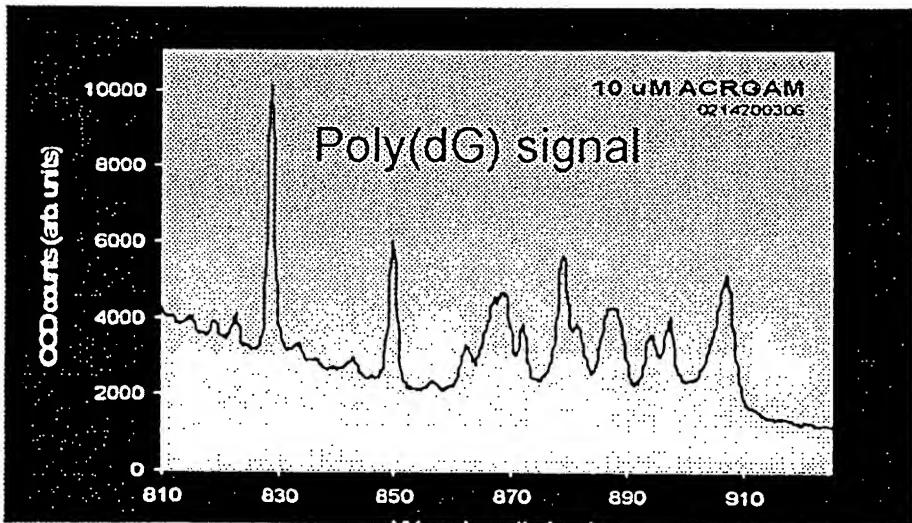


FIG. 6B

BEST AVAILABLE COPY

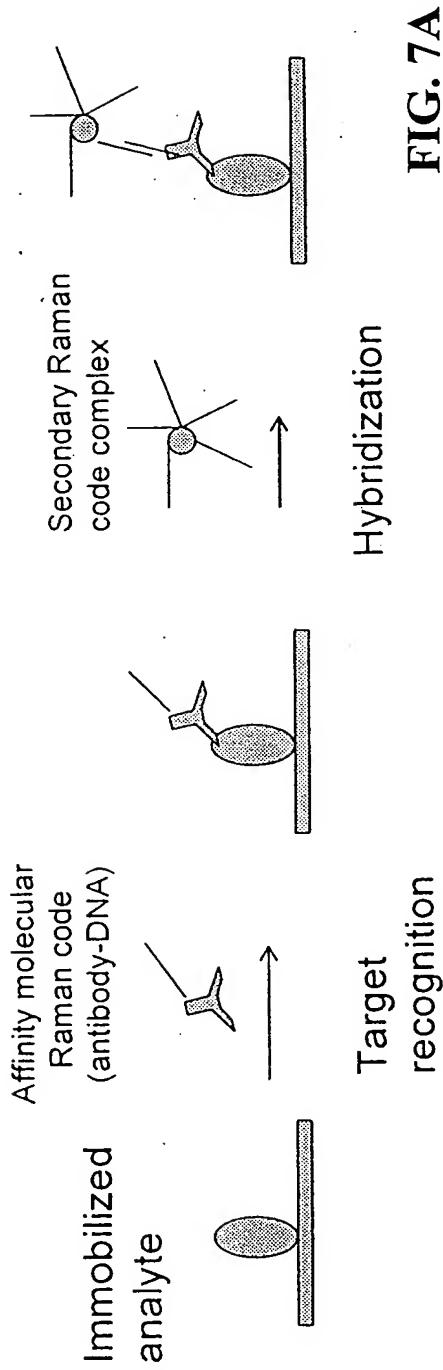


FIG. 7A

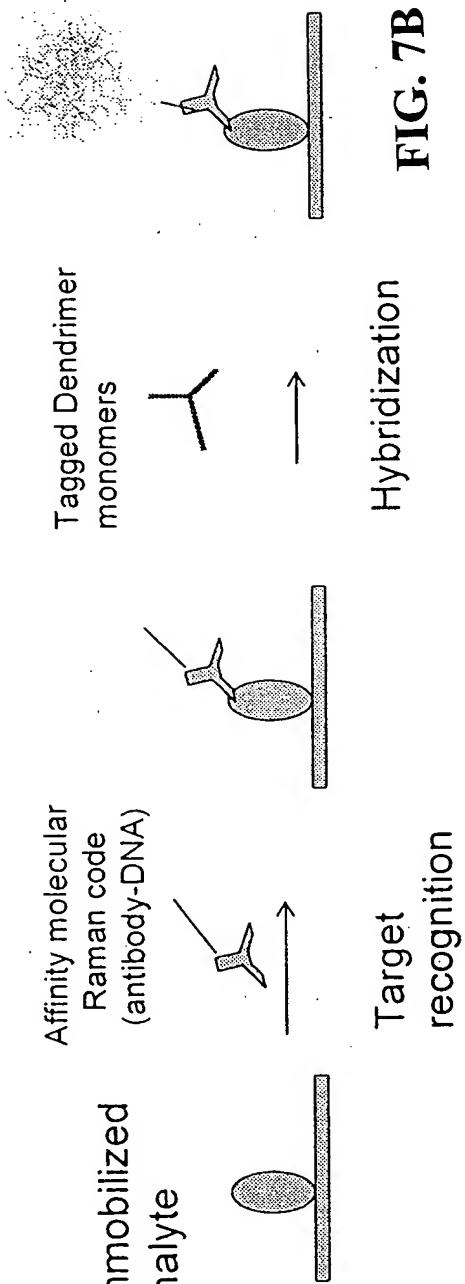


FIG. 7B

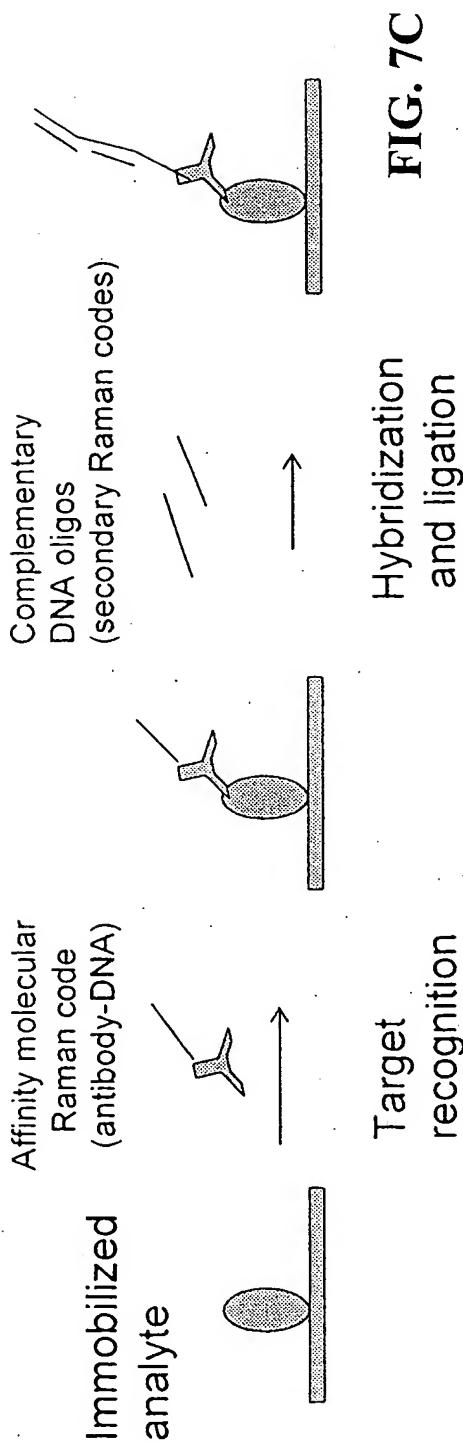


FIG. 7C

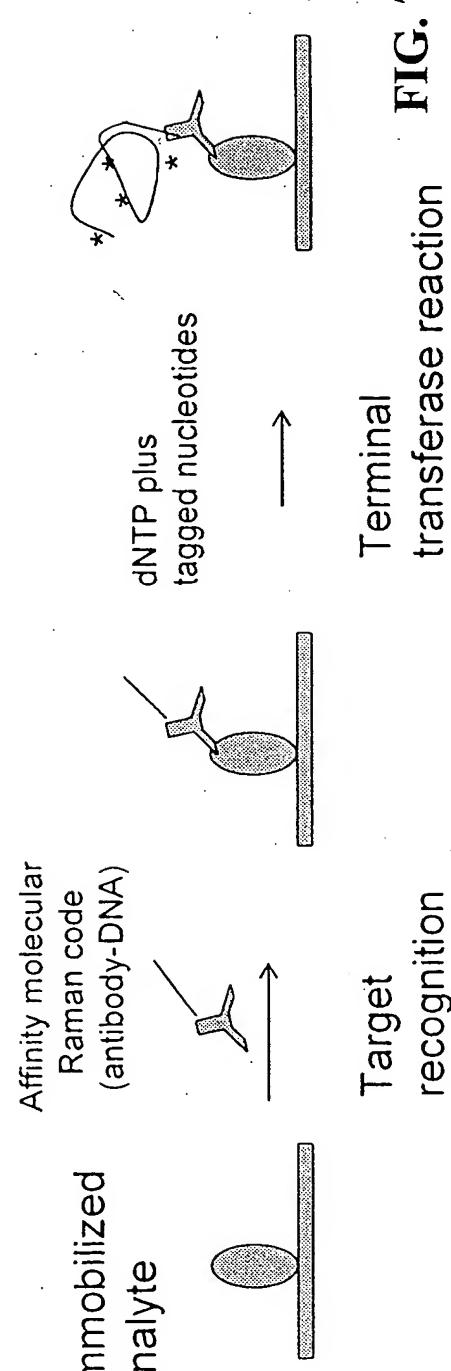


FIG. 7D

With Acrydite DNA Raman Code

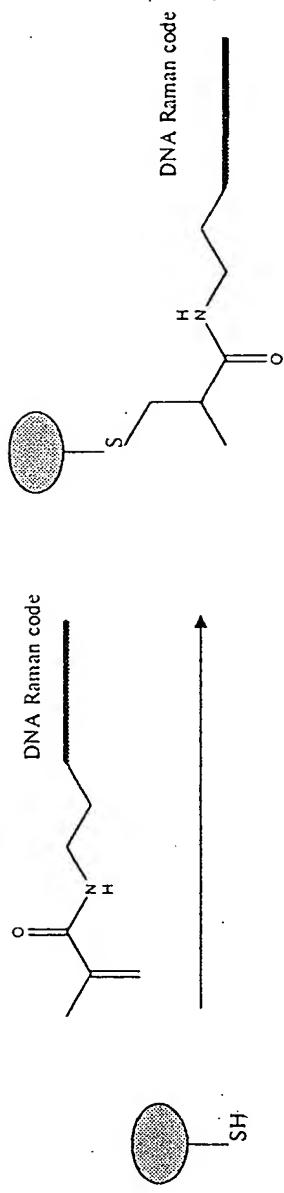
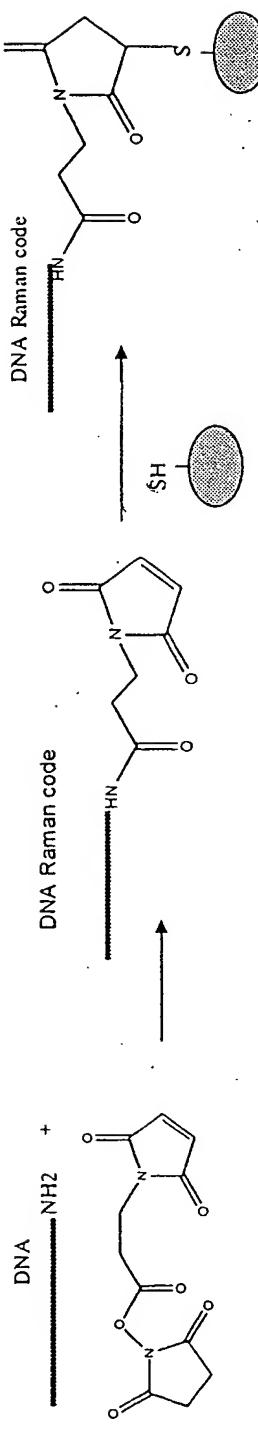


FIG. 8A

With Amino DNA Raman Code



(N-succinimidyl-4-maleimidobutyrate)

FIG. 8B

With Thiol DNA Raman Code – Maleimide activation

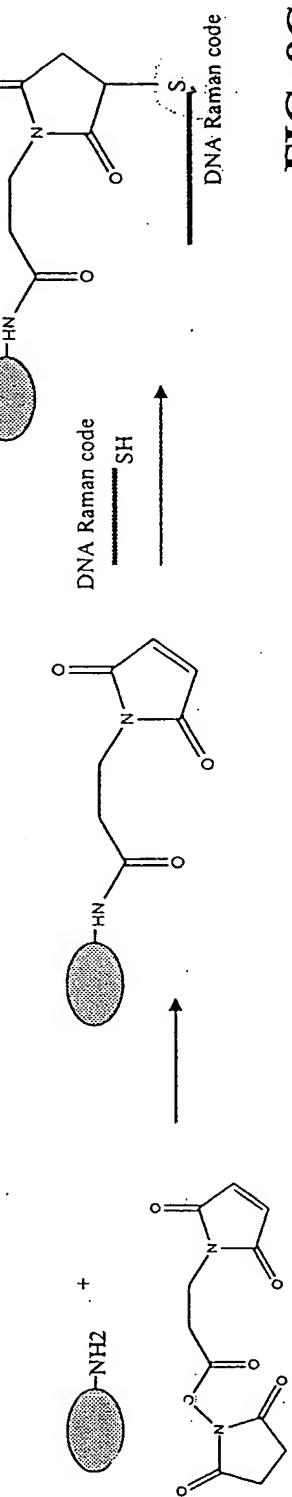


FIG. 8C

(N-succinimidyl-4-maleimidobutyrate)

With Carboxy-dT—DNA Raman Code – EDAC activation

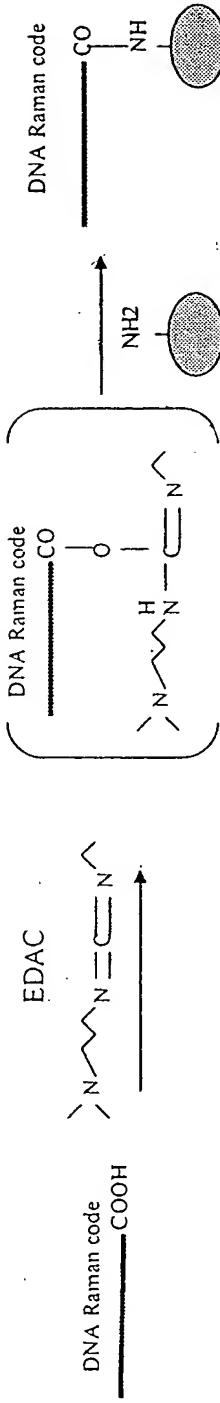


FIG. 8D

With Amino DNA Raman Code - EDAC activation

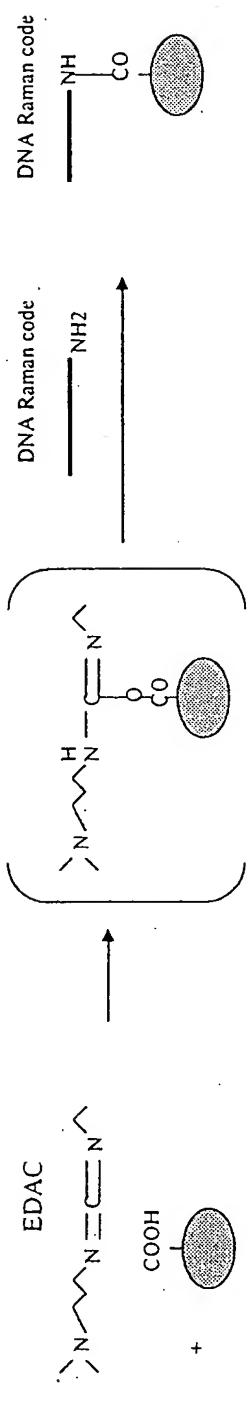


FIG. 8E

With Acrydite DNA Raman Code - Thio activation

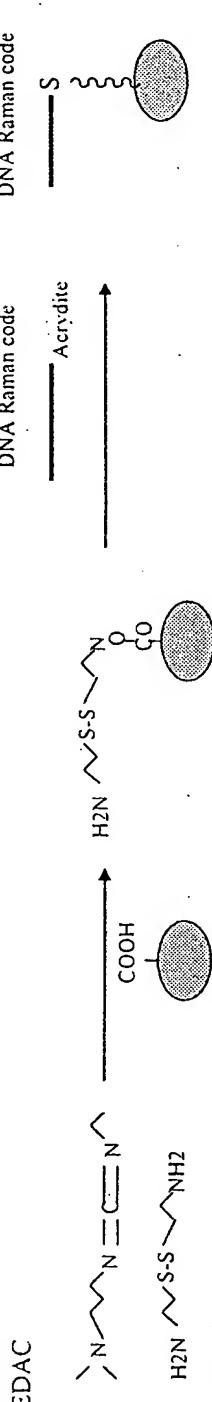


FIG. 8F

Cystamine
 $\text{H}_2\text{NCH}_2\text{CH}_2\text{S-SCH}_2\text{CH}_2\text{NH}_2$

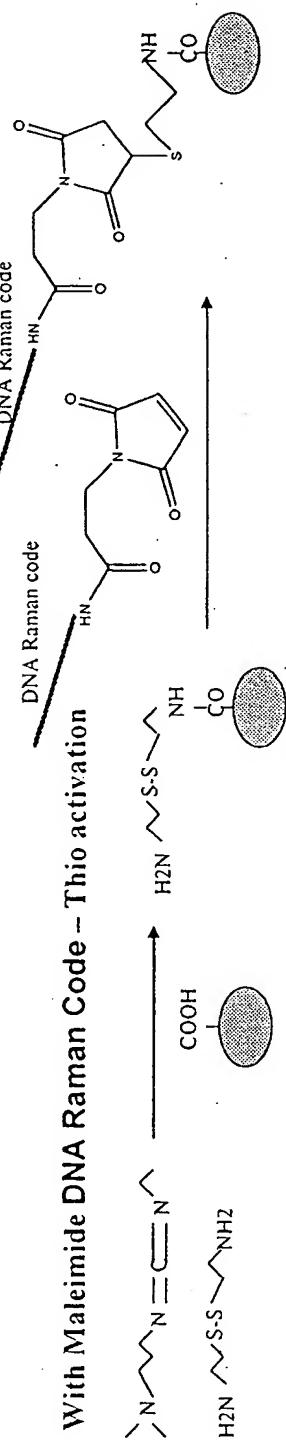
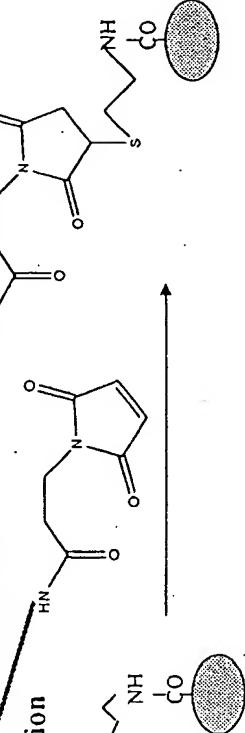
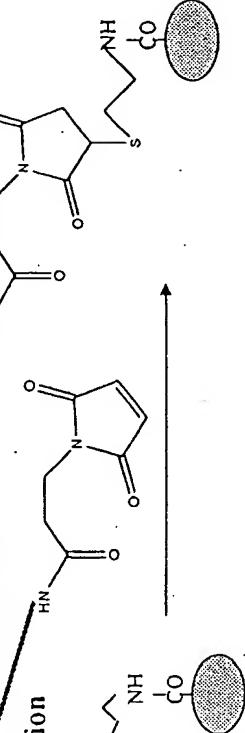


FIG. 8G



With Amino DNA Raman Code – sugar oxidation

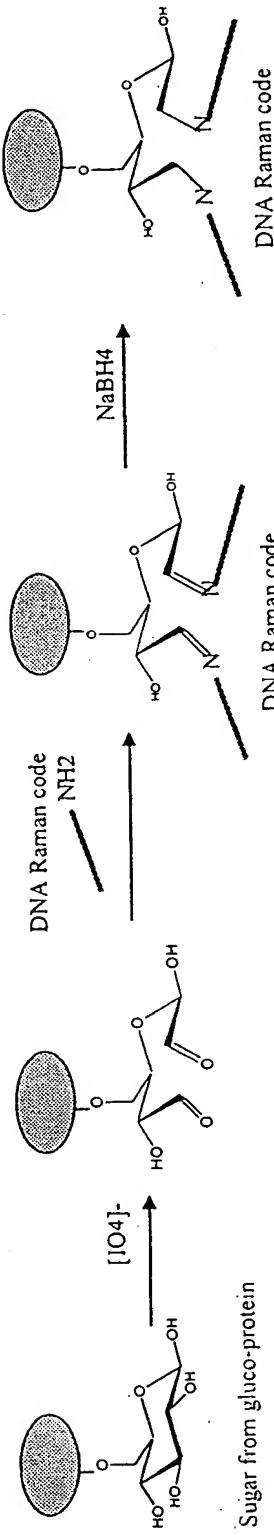


FIG. 8H

With Amino DNA Raman Code – Ser/Thr oxidation

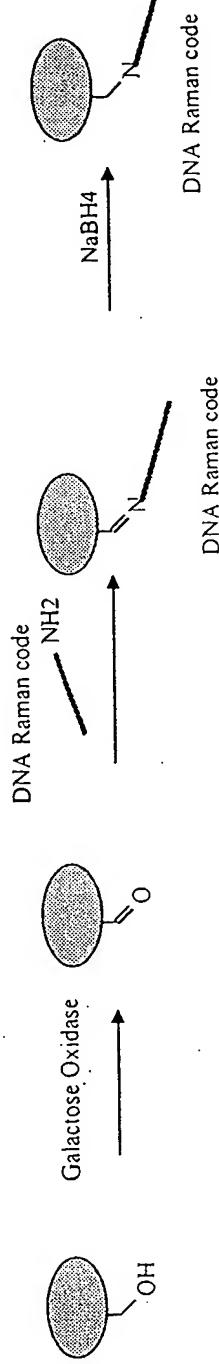
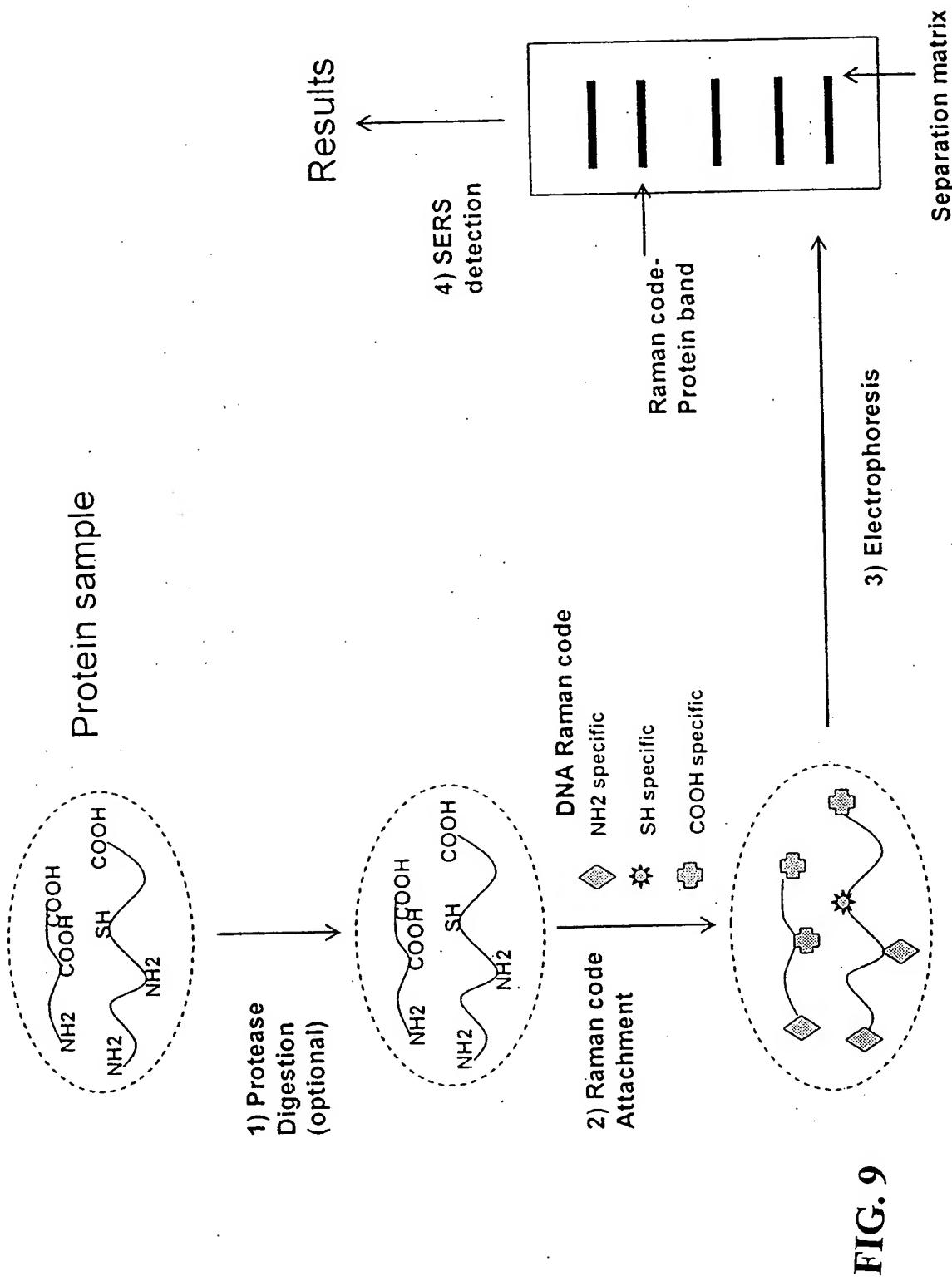


FIG. 8I



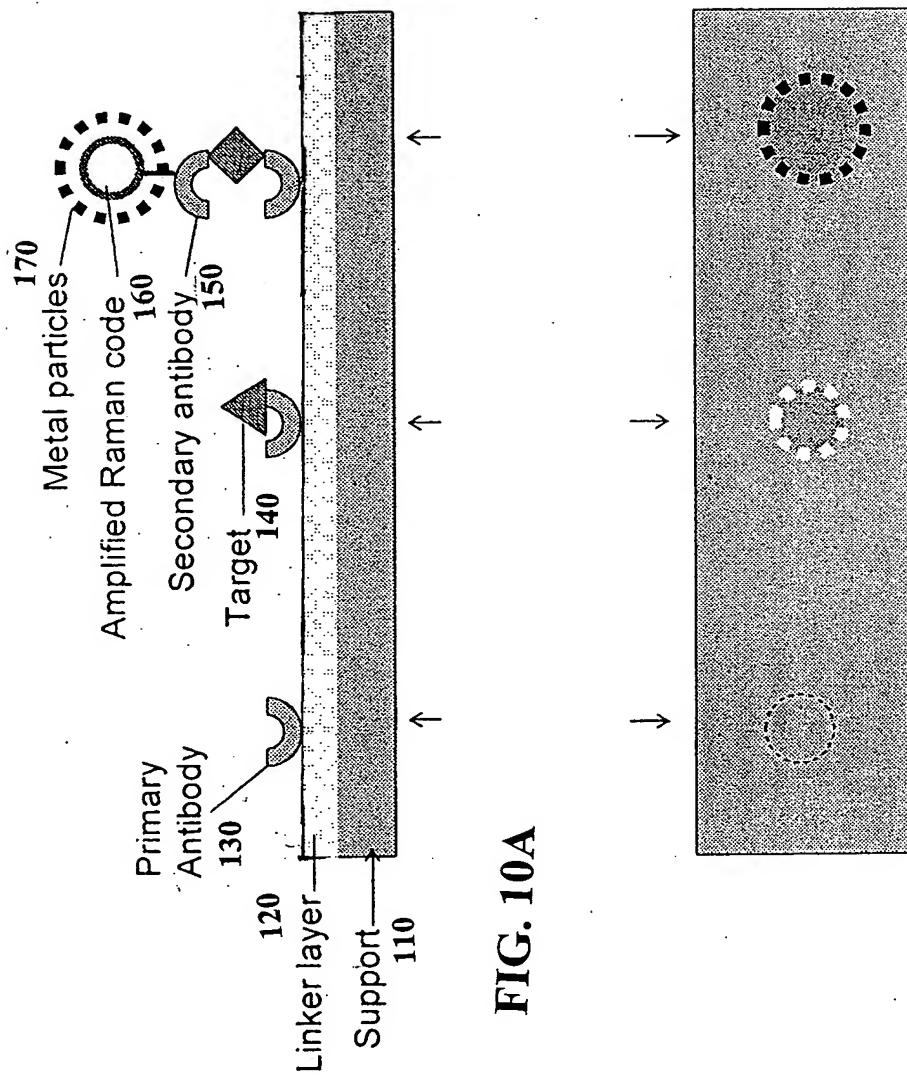


FIG. 10A

FIG. 10B

BEST AVAILABLE COPY

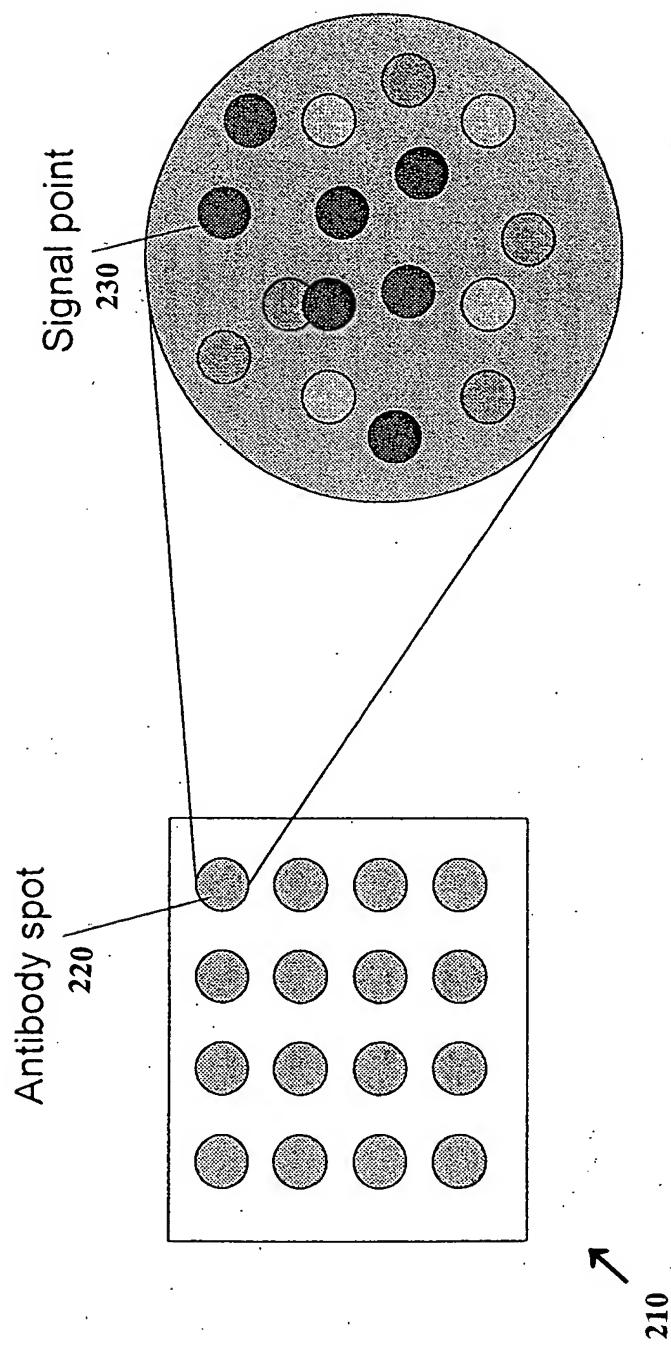


FIG. 11

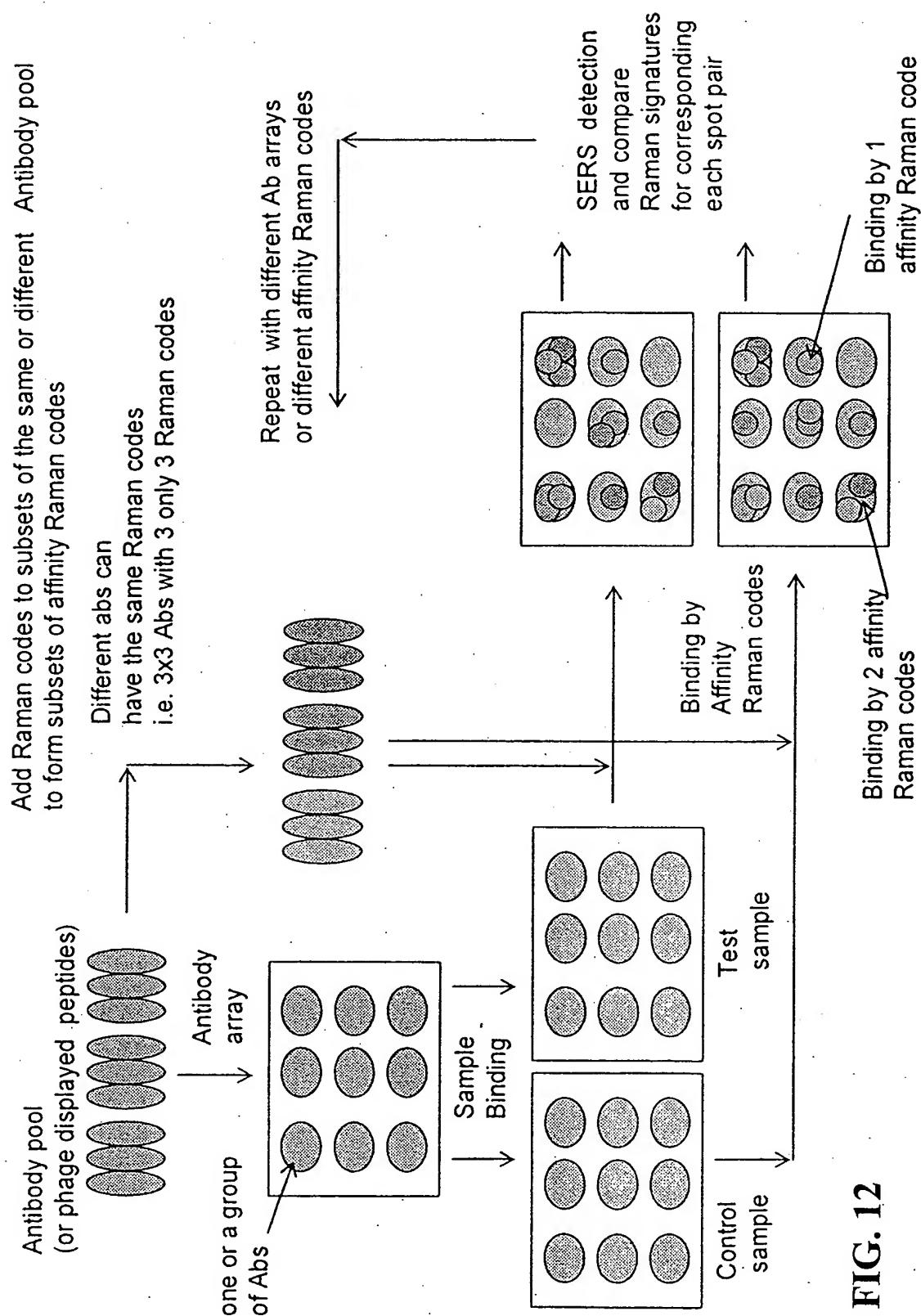


FIG. 12